

**Amendments to the Claims**

The listing of claims below will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1-31. (canceled)

32. (new) An analyzer user interface comprising:

a display for displaying a screen;

operation screen displaying means for displaying an operation screen on the display, the operation screen comprising a menu button for displaying a hierarchical menu for operating the analyzer, the hierarchical menu comprising a first layer and a second layer;

first selecting means for selecting the menu button of the operation screen;

first layer displaying means for displaying the first layer of the hierarchical menu on the operation screen when the menu button is selected by the first selecting means, the first layer comprising a first menu item for displaying the second layer;

second selecting means for selecting the first menu item;

second layer displaying means for displaying the second layer of the hierarchical menu on the operation screen when the first menu item is selected by the second selecting means, the second layer comprising a second menu item for executing an operation of the analyzer;

third selecting means for selecting the second menu item; and

operation executing means for executing the operation when the second menu item is selected by the third selecting means.

33. (new) The analyzer user interface according to Claim 32, wherein:

the second layer further comprises a third menu item for executing a second operation of the analyzer which is different from the operation of the second menu item;

the third selecting means selects one of the second menu item and the third menu item; and

the analyzer user interface further comprises second operation executing means for executing the second operation when the third menu item is selected by the third selecting means.

34. (new) The analyzer user interface according to Claim 32, wherein:

the hierarchical menu further comprises a third layer;

the second layer further comprises a fourth menu item for displaying the third layer;

the third layer comprises a fifth menu item for executing a third operation of the analyzer which is different from the operation of the second menu item and the second operation of the third menu item;

the third selecting means selects one of the second menu item, the third menu item and fourth menu item; and

the analyzer user interface further comprises:

third layer displaying means for displaying the third layer of the hierarchical menu on the operation screen when the fourth menu item is selected by the third selecting means;

fourth selecting means for selecting the fifth menu item; and

third operation executing means for executing the third operation when the fifth menu item is selected by the fourth selecting means.

35. (new) The analyzer user interface according to Claim 34, wherein:

the third layer further comprises a sixth menu item for executing a fourth operation of the analyzer which is different from the operation of the second menu item, the second operation of the third menu item and the third operation of the fifth menu item;

the fourth selecting means selects one of the fifth menu item and sixth menu item; and

the analyzer user interface further comprises fourth operation executing means for executing the fourth operation when the sixth menu item is selected by the fourth selecting means.

36. (new) The analyzer user interface according to Claim 32, wherein:  
the hierarchical menu further comprises a third layer;  
the second layer further comprises a third menu item for displaying the third layer;  
the third layer comprises a fourth menu item for executing a second operation of the analyzer which is different from the operation of the second menu item;  
the third selecting means selects one of the second menu item and the third menu item; and  
the analyzer user interface further comprises:  
third layer displaying means for displaying the third layer of the hierarchical menu on the operation screen when the third menu item is selected by the third selecting means;  
fourth selecting means for selecting the fourth menu item; and  
second operation executing means for executing the second operation when the fourth menu item is selected by the fourth selecting means.
37. (new) The analyzer user interface according to Claim 32, further comprising:  
main screen displaying means for displaying a main screen on the display, the main screen comprising an operation screen invoking part for displaying the operation screen; and  
fourth selecting means for selecting the operation screen invoking part;  
wherein the operation screen displaying means displays the operation screen on the display when the operation screen invoking part is selected by the fourth selecting means.
38. (new) The user interface according to Claim 37, wherein:  
the main screen further comprises a second operation screen invoking part for displaying a second operation screen which does not have a menu button for displaying a hierarchical menu for operating the analyzer;

the fourth selecting means selects one of the operation screen invoking part and the second operation screen invoking part; and

the analyzer user interface further comprises:

second operation screen displaying means for displaying the second operation screen on the display when the second operation screen invoking part is selected by the fourth selecting means.

39. (new) An analyzer user interface comprising:

a display for displaying a screen;

operation screen displaying means for displaying an operation screen on the display, the operation screen comprising a menu button for displaying a hierarchical menu for operating the analyzer, the hierarchical menu comprising a first layer, a second layer and a third layer;

first selecting means for selecting the menu button of the operation screen;

first layer displaying means for displaying the first layer of the hierarchical menu on the operation screen when the menu button is selected by the first selecting means, the first layer comprising a first menu item for displaying the second layer;

second selecting means for selecting the first menu item;

second layer displaying means for displaying the second layer of the hierarchical menu on the operation screen when the first menu item is selected by the second selecting means, the second layer comprising a second menu item for displaying the third layer;

third selecting means for selecting the second menu item;

third layer displaying means for displaying the third layer of the hierarchical menu on the operation screen when the second menu item is selected by the third selecting means, the third layer comprising a third menu item for executing a first operation of the analyzer and a fourth menu item for executing a second operation of the analyzer which is different from the first operation;

fourth selecting means for selecting one of the third menu item and the fourth menu item;

first operation executing means for executing the first operation when the third menu item is selected by the fourth selecting means; and

second operation executing means for executing the second operation when the fourth menu item is selected by the fourth selecting means.

40. (new) The analyzer user interface according to Claim 39, wherein:

the second layer further comprises a fifth menu item for executing a third operation of the analyzer which is different from the first operation and the second operation;

the third selecting means selects one of the second menu item and the fifth menu item; and

the analyzer user interface further comprises third operation executing means for executing the third operation when the fifth menu item is selected by the third selecting means.

41. (new) An analyzer user interface comprising:

a display for displaying a screen;

operation screen displaying means for displaying an operation screen on the display, the operation screen comprising a menu button for displaying a hierarchical menu for operating the analyzer, the hierarchical menu comprising a first layer and a second layer;

first selecting means for selecting the menu button of the operation screen;

first layer displaying means for displaying the first layer of the hierarchical menu on the operation screen when the menu button is selected by the first selecting means, the first layer comprising a plurality of menu items which is classified functionally;

second selecting means for selecting one of the plurality of menu items of the first layer;

second layer displaying means for displaying the second layer of the hierarchical menu on the operation screen when one of the plurality of menu items of the first layer is selected by the second selecting means, the second layer comprising a plurality of

command items for executing an operation related to the selected menu item of the first layer;

third selecting means for selecting one of the plurality of command items of the second layer displayed by the second layer displaying means; and

operation executing means for executing the operation corresponding to the selected command item when one of the plurality of command items is selected by the third selecting means.

42. (new) The analyzer user interface according to Claim 41, further comprising:  
a memory for storing the hierarchical menu;

wherein:

the first layer displaying means read the first layer of the hierarchical menu from the memory, and display the first layer of the hierarchical menu on the operation screen; and

the second layer displaying means read the second layer of the hierarchical menu from the memory, and display the second layer of the hierarchical menu on the operation screen.

43. (new) The analyzer user interface according to Claim 41, wherein:

the hierarchical menu further comprises a third layer;

the second layer further comprises at least one menu item for displaying the third layer;

the third layer comprises a plurality of command items for executing an operation related to the selected menu item of the second layer;

the third selecting means selects one of the plurality of command items of the second layer or the menu item of the second layer displayed by the second layer displaying means; and

the analyzer user interface further comprises:

third layer displaying means for displaying the third layer of the hierarchical menu on the operation screen when the menu item of the second layer is selected by the third selecting means;

fourth selecting means for selecting one of the plurality of command items of the third layer displayed by the third layer displaying means; and

second operation executing means for executing the operation corresponding to the selected command item of the third layer when one of the plurality of command items of the third layer is selected by the fourth selecting means.

44. (new) The analyzer user interface according to Claim 41, further comprising:  
main screen displaying means for displaying a main screen on the display, the main screen comprising an operation screen invoking part for displaying the operation screen; and  
fourth selecting means for selecting the operation screen invoking part;  
wherein the operation screen displaying means displays the operation screen on the display when the operation screen invoking part is selected by the fourth selecting means.
45. (new) The user interface according to Claim 44, wherein:  
the main screen further comprises a second operation screen invoking part for displaying a second operation screen which does not have a menu button for displaying a hierarchical menu for operating the analyzer;  
the fourth selecting means selects one of the operation screen invoking part and the second operation screen invoking part; and  
the analyzer user interface further comprises:  
second operation screen displaying means for displaying the second operation screen on the display when the second operation screen invoking part is selected by the fourth selecting means.
46. (new) An analyzer user interface comprising:  
a display for displaying a screen;  
operation screen displaying means for displaying an operation screen on the display, the operation screen comprising a menu button for displaying a hierarchical

menu for operating the analyzer, the hierarchical menu being configured as a tree structure and comprising a first layer, a second layer and a third layer;

first selecting means for selecting the menu button of the operation screen;

first layer displaying means for displaying the first layer of the hierarchical menu on the operation screen when the menu button is selected by the first selecting means, the first layer comprising a plurality of menu items which is classified by major classification;

second selecting means for selecting one of the plurality of menu items of the first layer;

second layer displaying means for displaying the second layer of the hierarchical menu on the operation screen when one of the plurality of menu items of the first layer is selected by the second selecting means, the second layer comprising a plurality of menu items which is classified by minor classification;

third selecting means for selecting one of the plurality of menu items of the second layer displayed by the second layer displaying means; and

third layer displaying means for displaying the third layer of the hierarchical menu on the operation screen when one of the plurality of menu items of the second layer is selected by the third selecting means, the third layer comprising a plurality of command items for executing an operation related to the selected menu item of the second layer;

fourth selecting means for selecting one of the plurality of command items of the third layer displayed by the third layer displaying means; and

operation executing means for executing the operation corresponding to the selected command item when one of the plurality of command items of the third layer is selected by the fourth selecting means.

47. (new) The analyzer user interface according to Claim 46, further comprising:  
a memory for storing the hierarchical menu;

wherein:

the first layer displaying means read the first layer of the hierarchical menu from the memory, and display the first layer of the hierarchical menu on the operation screen;



the second layer displaying means read the second layer of the hierarchical menu from the memory, and display the second layer of the hierarchical menu on the operation screen; and

the third layer displaying means read the third layer of the hierarchical menu from the memory, and display the third layer of the hierarchical menu on the operation screen.

48. (new) The analyzer user interface according to Claim 46, wherein:

the second layer further comprises at least one command item for executing an operation related to the selected menu item of the first layer;

the third selecting means selects one of the plurality of menu items of the second layer or the command item of the second layer displayed by the second layer displaying means; and

the analyzer user interface further comprises:

second operation executing means for executing the operation corresponding to selected command item of the second layer when the command items of the second layer is selected by the third selecting means.